The AMAC-500 is a rugged, magnetically attached, remotely operated crawler designed to perform automated single axis ultrasonic scanning in the inspection of tanks, pressure vessels, and large diameter piping. Combine the AMAC-500 with an Ultrasonic system for automated data collection.

The AMAC-500 is mated to the MCU-1000 motor control unit which provides motion control for flexible, accurate scanning and steering.

The suspension of the AMAC-500 is fully independent allowing it to easily traverse welds, junctions and other obstructions. The large 2.5 inch diameter wheels of the AMAC-500 utilize Neodymium magnets providing over 250 pounds of force. The wheels are staggered (front to rear) to ease in crossing weld lines. Self adjusting scrapers are mounted over each wheel to cope with excessive foreign material buildup.

**AMAC-500 Crawler**
- Clamping force: Over 250lbs (.25 inch thick steel plate)
- Drive force: 200lbs vertical pull at stall
- (4) Wheel Drive
- (4) Wheel Independent Suspension
- Left, Right Steerable, Reversible
- 2.5” Dia. Magnetic Wheels
- (2) High power DC motors
- Advanced design allows adherence to changing surface geometry without time consuming adjustments
- Highly efficient bubbler system which allows the transducer to maintain excellent contact with the scan surface
- Dimensions: (L,W,H) 14” x 12” x 4”
- Weight: 20 lbs

**MCU-2000 Control Unit (Optional)**
- Menu driven LCD
- Fully programmable motion controller to define virtually any scan pattern required
- Rear Panel access to encoder signals
- Encoder line driver receiver
- Joystick
- Speed, forward and reverse control
- Emergency Stop button

**MCU-1000 Control Unit**
- Direct read position indicator (fed from friction wheel encoder)
- Encoder line driver receiver
- Joystick
- Speed, forward and reverse control
- Emergency Stop button
- Three independent modes of operation
  - Speed control with constant forward/reverse operation
  - Joystick (dynamic control for steering, speed, forward and reverse motion)
  - Remote control using the optional RCU-1000 (remote joystick) or other custom control interfaces

**Other Options**
- Extended Control cable lengths
- Custom bundled control cable
- Motor mounted Encoders for use with optional MCU-2000
- Interface cable to encoder signals

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